

Anti-Human IFN-gamma Antibody, Clone 1-D1K, FITC

Mouse monoclonal antibody against human IFN-gamma, FITC-conjugated

Catalog #100-1459

100 Tests

5 µL/test

Product Description

This mouse monoclonal antibody (clone 1-D1K) reacts with human interferon-gamma (IFN- γ). IFN- γ is an ~17 kDa protein produced in response to mitogenic and antigenic stimuli by T and NK cells, and in smaller amounts by dendritic cells and macrophages. IFN- γ is controlled by cytokines such as IL-12 and IL-18 secreted in response to infection. IFN- γ functions as a homodimer composed of interconnecting alpha helices which bind to the alpha subunit of the IFN- γ receptor (IFNGR) on target cells, resulting in receptor crosslinking and activation of JAK-STAT signaling. IFN- γ mediates many cellular processes, including upregulation of class I and II antigen presentation pathways, antiviral and antimicrobial mechanisms, antiproliferative and apoptotic effects, immunomodulation, and leukocyte trafficking. The 1-D1K antibody is suitable for the detection of intracellular IFN- γ by flow cytometry.

Target Antigen:	IFN γ
Alternative Names:	IFN- γ , immune interferon, interferon gamma, type II interferon
Gene ID:	3458
Species Reactivity:	Human, Non Human Primate
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	1-D1K
Isotype:	IgG1
Immunogen:	Recombinant human IFN- γ
Conjugate:	FITC (Fluorescein isothiocyanate)

Applications

Verified Applications: FC

Reported Applications: ELISpot, FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Purification: The antibody was purified by affinity chromatography and conjugated with FITC.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Stable until expiry date (EXP) on label.

Directions for Use: For flow cytometry, the suggested use of this antibody is 5 µL per 1 x 10⁶ cells in 50 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Data

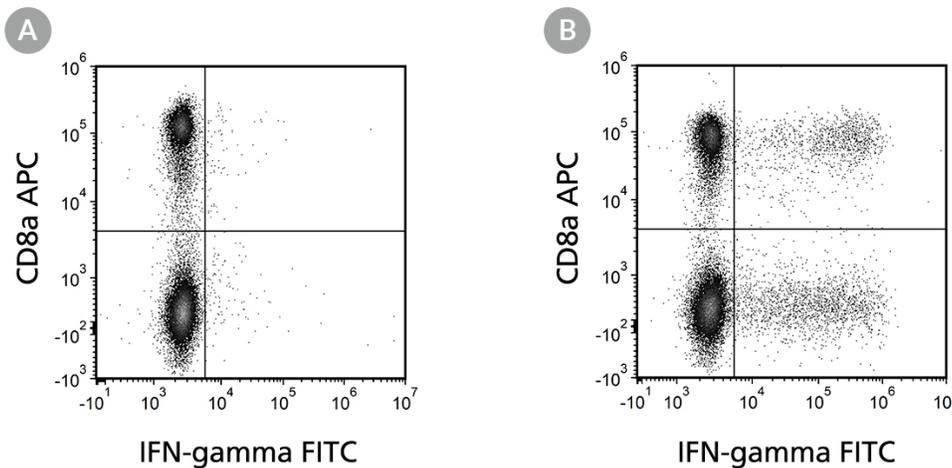


Figure 1. Flow Cytometry Analysis of Unstimulated And Stimulated Human T Cells Labeled With Anti-Human IFN-gamma Antibody, Clone 1-D1K, FITC

(A) Flow cytometry analysis of unstimulated human T cells labeled with anti-human IFN-gamma Antibody, Clone 1-D1K, FITC and anti-human CD8a antibody, clone RPA-T8, APC (Catalog #60022AZ.1). (B) Flow cytometry analysis of PMA/ionomycin-stimulated human T cells labeled with anti-human IFN-gamma Antibody, Clone 1-D1K, FITC and anti-human CD8a antibody, clone RPA-T8, APC (Catalog #60022AZ.1).

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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